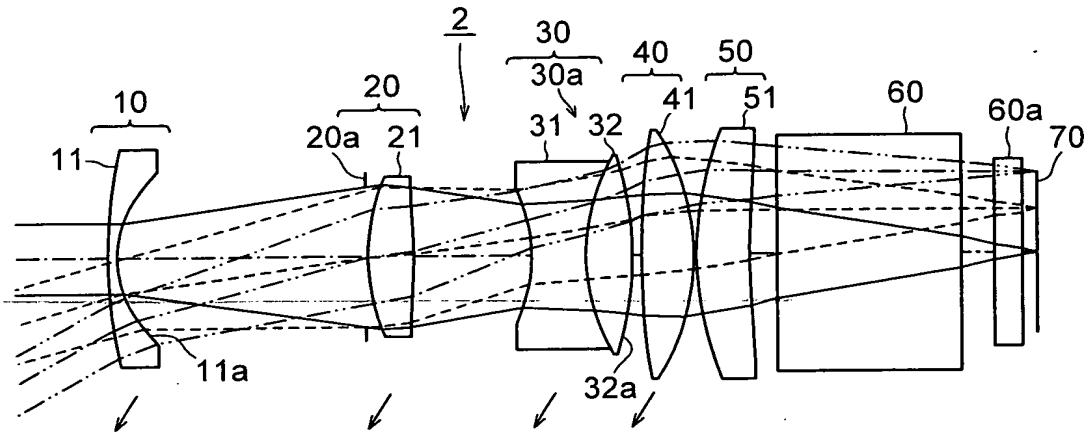
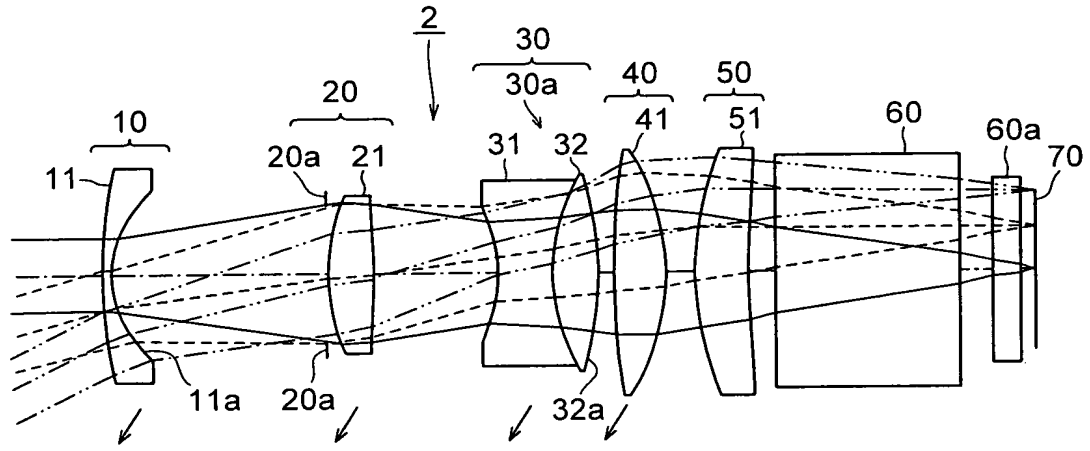
(a) WIDE-ANGLE POSITION



(b) MEDIUM-ANGLE POSITION



(c) TELEPHOTO POSITION

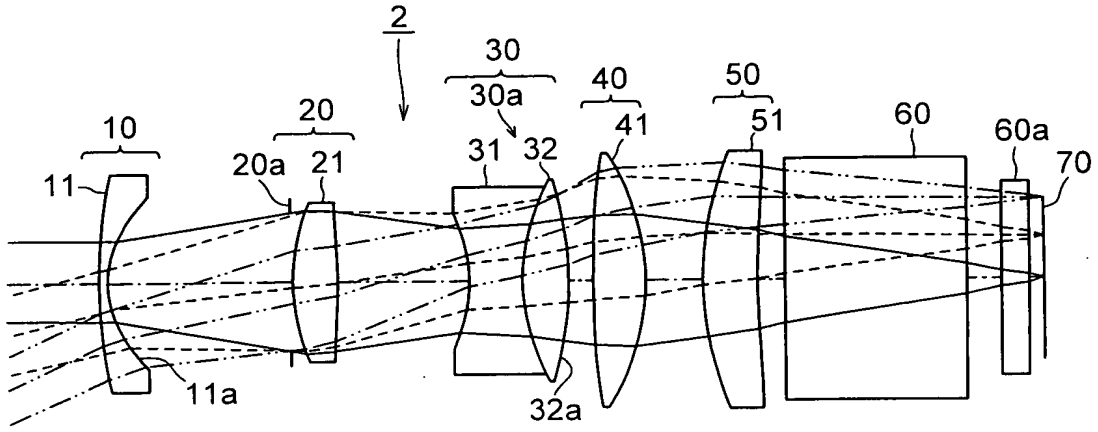


FIG. 1

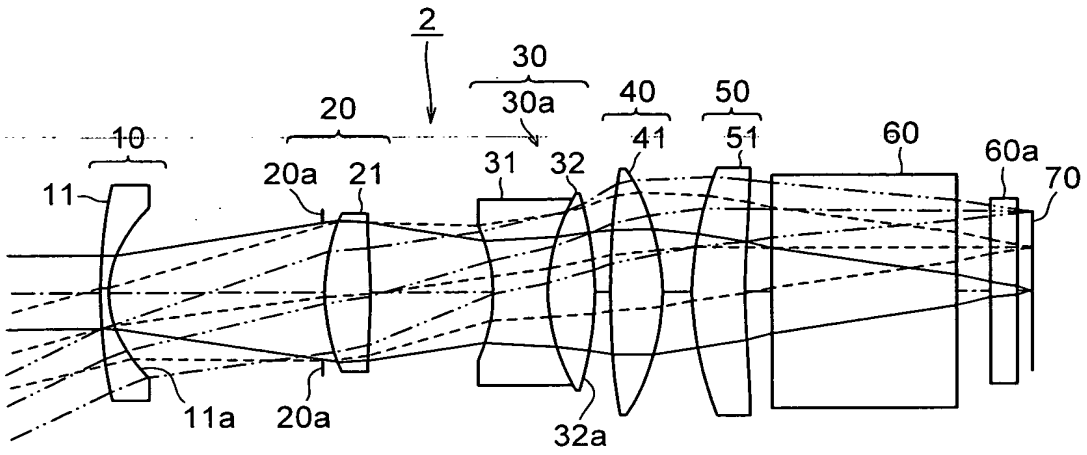


FIG. 2

	RDY	THI	GLA
OBJ:	INFINITY	※ 1	
1:	63.23698	1.000000	583130.594609
2:	13.30225	※ 2	
ASP:			
K :	0.000000		
A : -.270879E-04	B : -.267940E-06	C : 0.164953E-08	D : -.139868E-10
STO:	INFINITY	0.200000	
4:	26.03063	4.925835	834469.365407
5:	-190.75264	※ 3	
6:	-19.50592	6.000000	799110.251256
7:	24.30030	5.327179	484530.701000
8:	-33.99213	※ 4	
ASP:			
K :	0.000000		
A : 0.151727E-04	B : 0.119217E-07	C : 0.156057E-09	D : -.470482E-12
9:	113.36301	5.903469	740882.483218
10:	-28.16070	※ 5	
11:	41.03839	6.000000	713000.539000
12:	205.88571		
13:	INFINITY	20.000000	
14:	INFINITY	1.700000	
15:	INFINITY	1.000000	
16:	INFINITY	1.000000	
17:	INFINITY	3.000000	
18:	INFINITY	0.608714	
IMG:	INFINITY	1.032917	

ZOOM DATA

	wide	normal	Tele
※ 1	1800.00000	1799.39916	1798.00000
※ 2	27.20167	23.47649	19.97107
※ 3	12.98601	13.65120	14.44929
※ 4	0.94348	1.70403	2.49906
※ 5	0.20000	3.09727	6.41474

FIG. 3

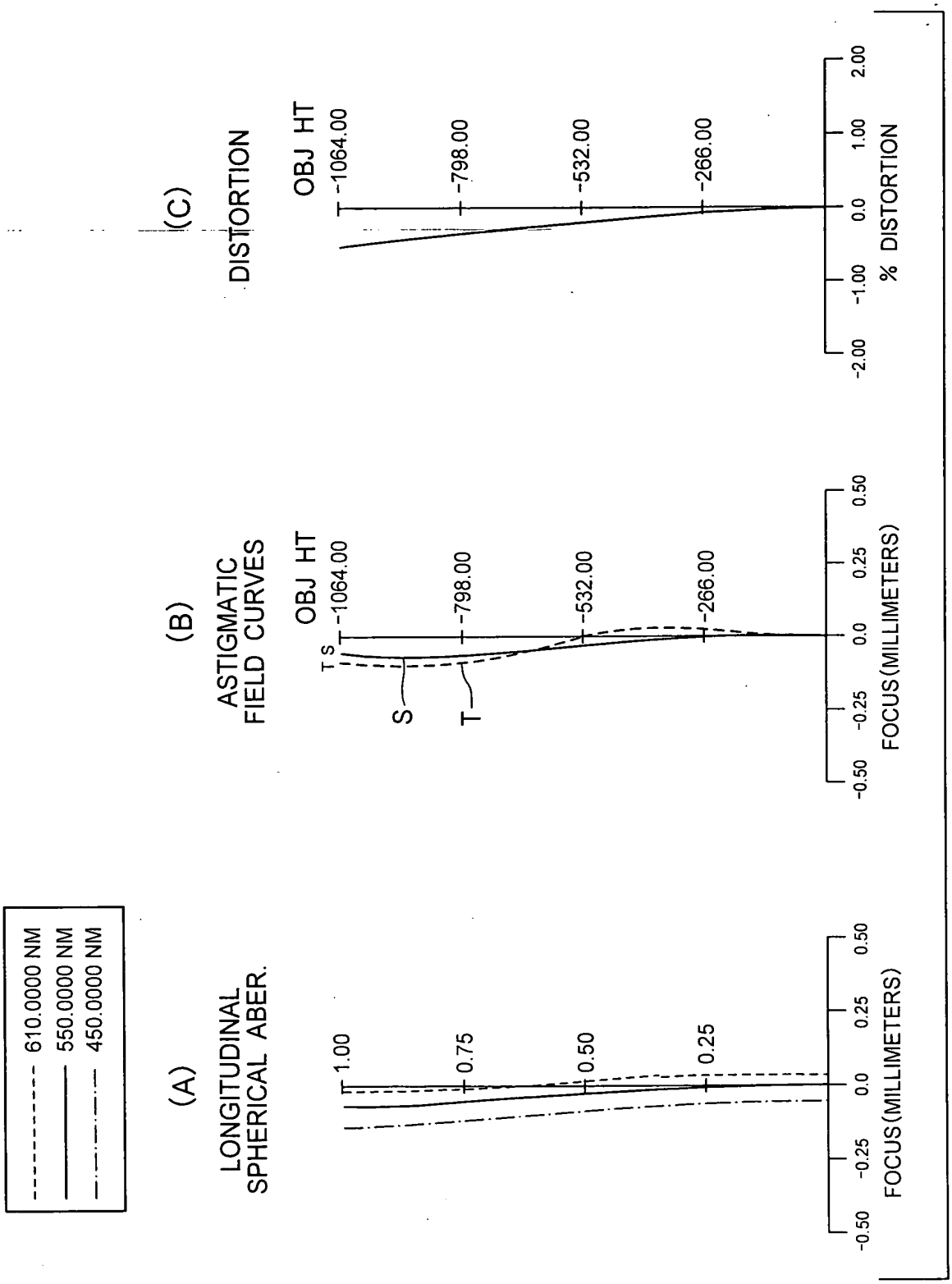

610.0000 NM
550.0000 NM
450.0000 NM
(A)
LONGITUDINAL SPHERICAL ABER.
1.00
0.75
0.50
0.25
-0.50
-0.25
0.0
0.25
0.50
FOCUS(MILLIMETERS)
(B)
ASTIGMATIC FIELD CURVES
OBJ HT
-1064.00
-798.00
-532.00
-266.00
T S
S
T
-0.50
-0.25
0.0
0.25
0.50
FOCUS(MILLIMETERS)
(C)
DISTORTION
OBJ HT
-1064.00
-798.00
-532.00
-266.00
-2.00
-1.00
0.0
1.00
2.00
% DISTORTION

FIG. 4

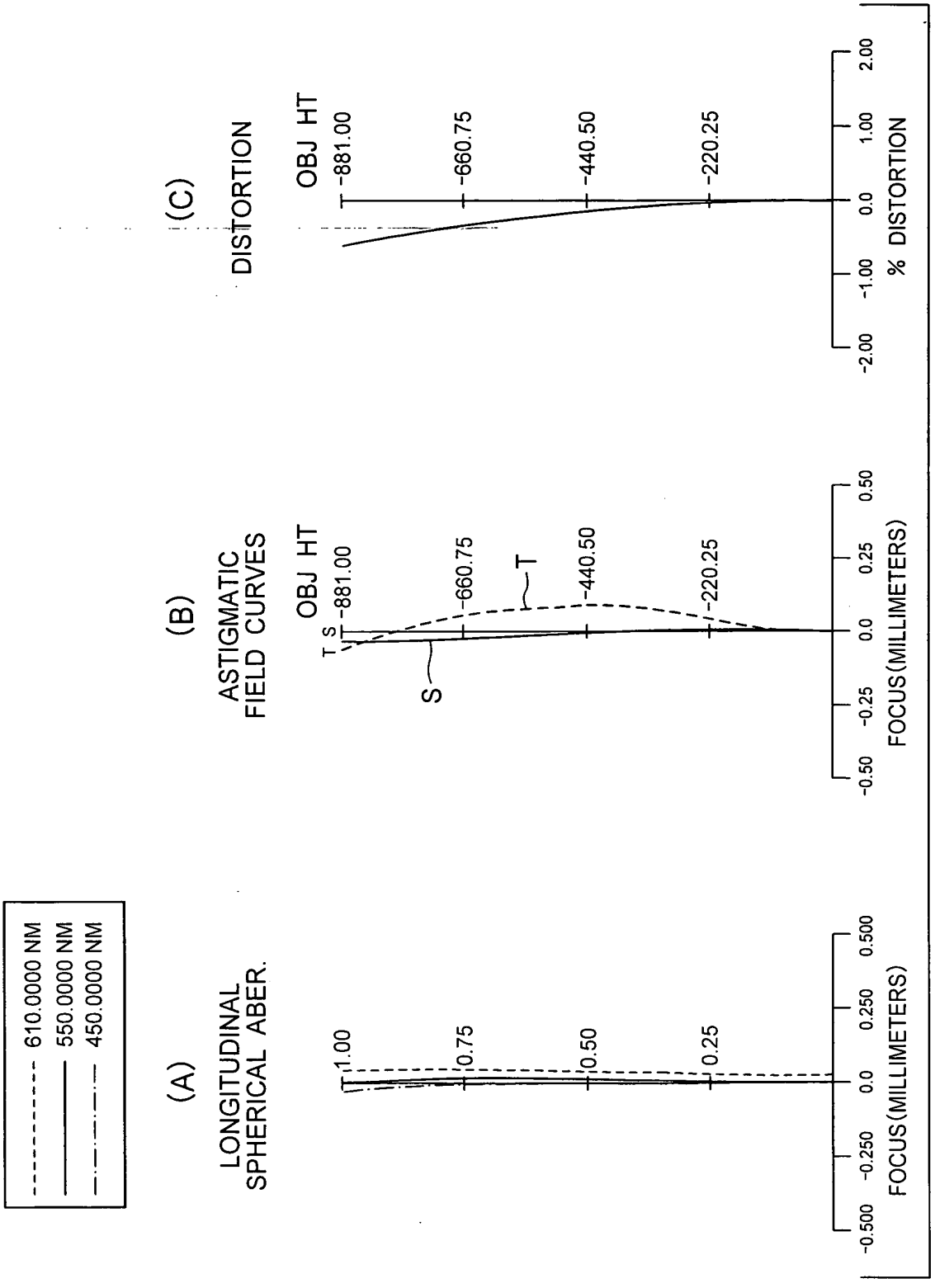

610.0000 NM
550.0000 NM
450.0000 NM
(A)
LONGITUDINAL SPHERICAL ABER.
1.00
0.75
0.50
0.25
-0.500
-0.250
0.0
0.250
0.500
FOCUS(MILLIMETERS)
(B)
ASTIGMATIC FIELD CURVES
OBJ HT
-881.00
-660.75
-440.50
-220.25
T
S
-0.50
-0.25
0.0
0.25
0.50
FOCUS(MILLIMETERS)
(C)
DISTORTION
OBJ HT
-881.00
-660.75
-440.50
-220.25
-2.00
-1.00
0.0
1.00
2.00
% DISTORTION

FIG. 5

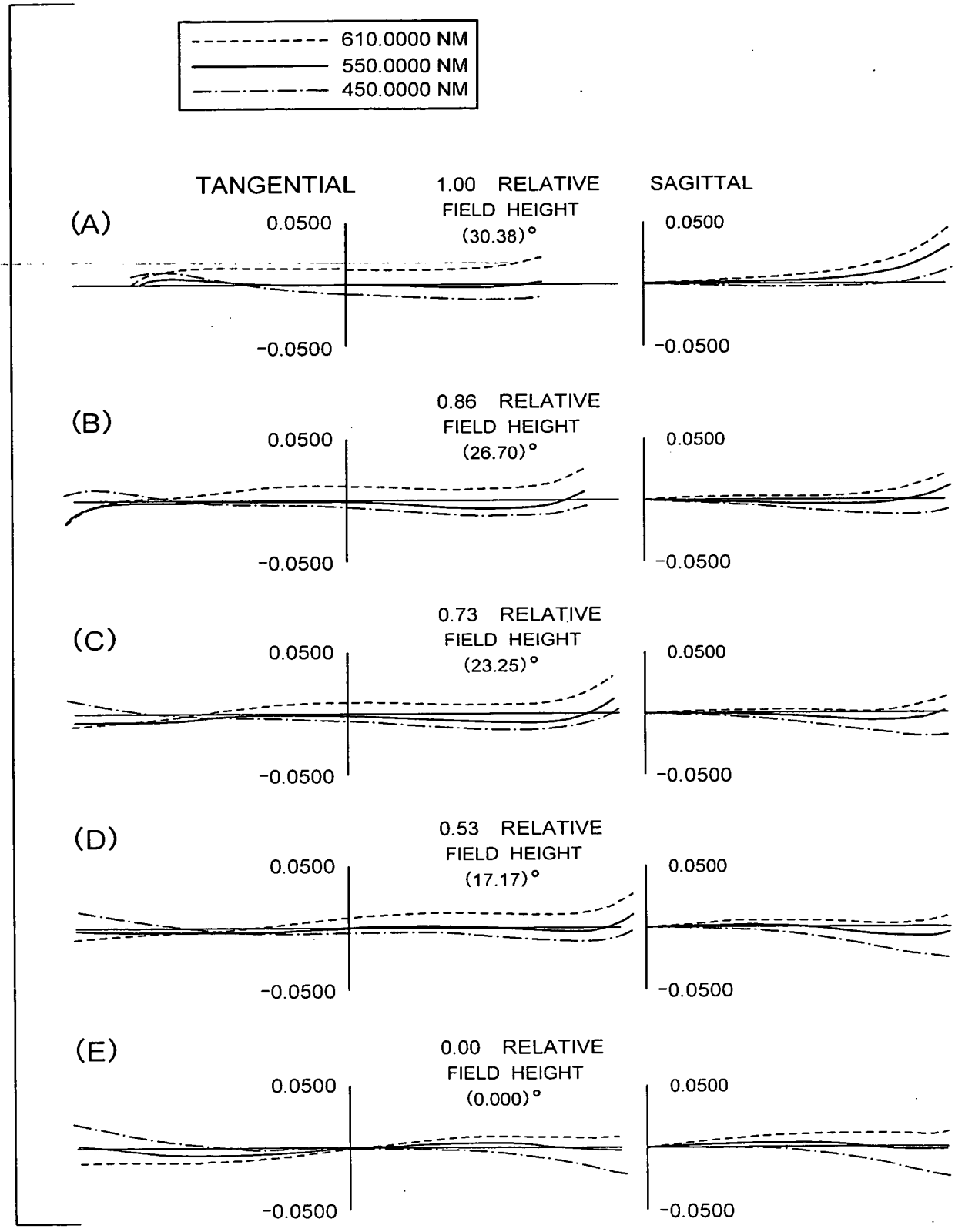

610.0000 NM
550.0000 NM
450.0000 NM
TANGENTIAL
1.00 RELATIVE FIELD HEIGHT (30.38)°
SAGITTAL
(A)
0.0500
-0.0500
0.0500
-0.0500
0.86 RELATIVE FIELD HEIGHT (26.70)°
(B)
0.0500
-0.0500
0.0500
-0.0500
0.73 RELATIVE FIELD HEIGHT (23.25)°
(C)
0.0500
-0.0500
0.0500
-0.0500
0.53 RELATIVE FIELD HEIGHT (17.17)°
(D)
0.0500
-0.0500
0.0500
-0.0500
0.00 RELATIVE FIELD HEIGHT (0.000)°
(E)
0.0500
-0.0500
0.0500
-0.0500

FIG. 6

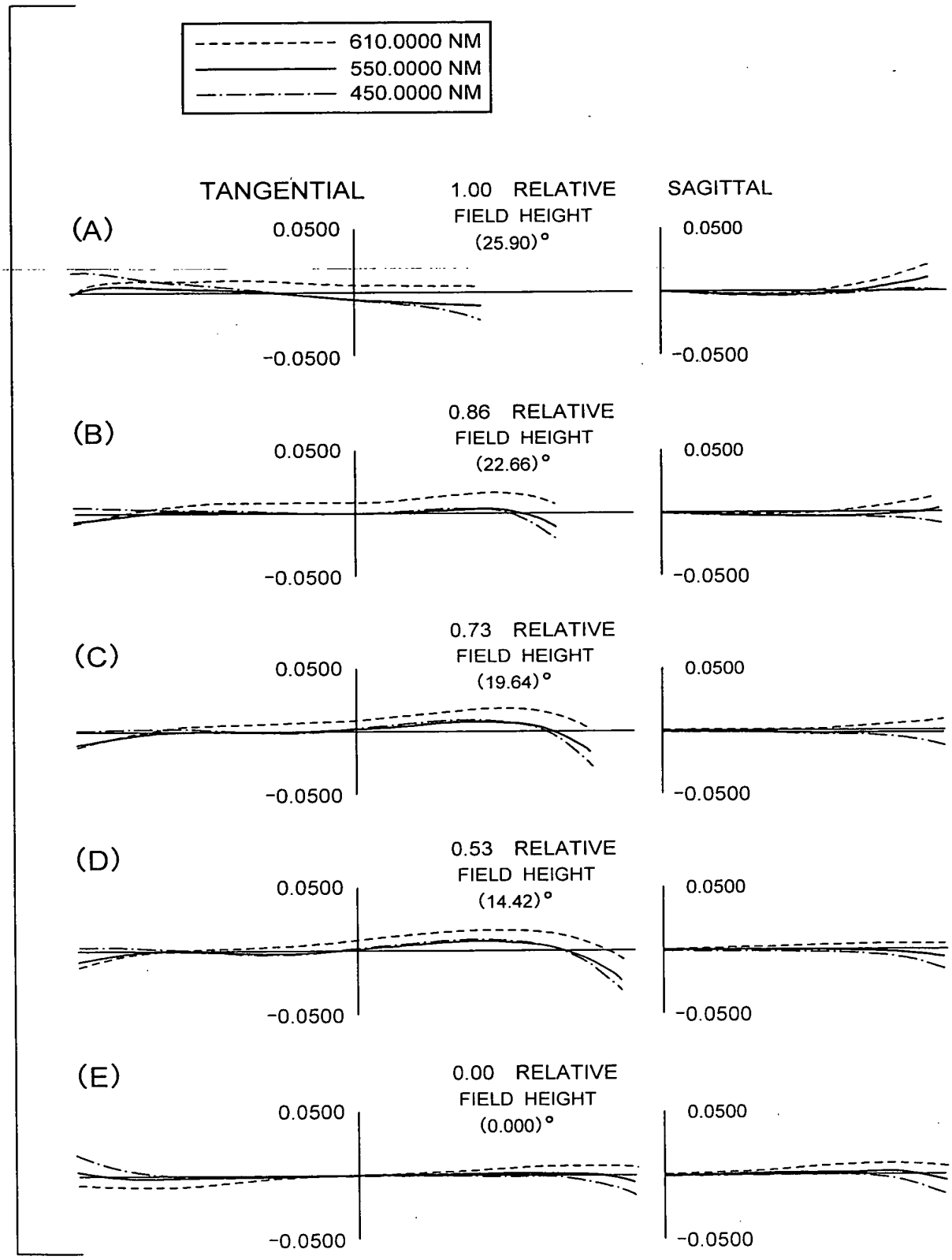

610.0000 NM
550.0000 NM
450.0000 NM
TANGENTIAL
SAGITTAL
(A)
1.00 RELATIVE FIELD HEIGHT (25.90)°
0.0500
-0.0500
(B)
0.86 RELATIVE FIELD HEIGHT (22.66)°
(C)
0.73 RELATIVE FIELD HEIGHT (19.64)°
(D)
0.53 RELATIVE FIELD HEIGHT (14.42)°
(E)
0.00 RELATIVE FIELD HEIGHT (0.000)°

FIG. 7

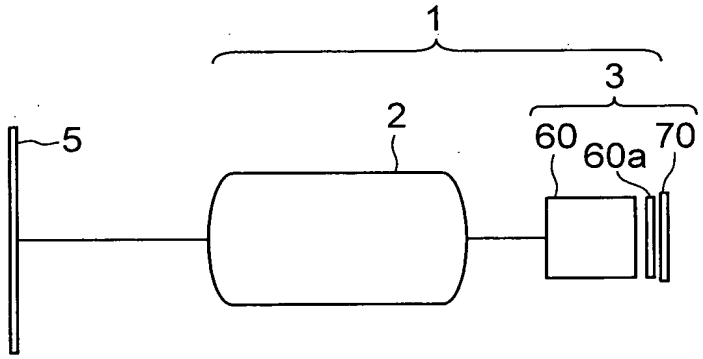


FIG. 8